

## Chapter 2 Study Guide

**Directions:** Complete the following problems from page 102 of your textbook. Show your work.

- 1) Find the mean, median, mode and range of the data set: 31, 20, 31, 51, 27

<b>Mean:</b>	<b>Median:</b>
<b>Mode:</b>	<b>Range:</b>

- 2) Copy the data about the number of children in 15 families here (in numerical order):

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<b>Mean:</b>	<b>Median:</b>
<b>Mode:</b>	<b>Range:</b>

- 3) Make a **frequency table** of the data.


- 4) Make a **line plot** of the data.

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7)

8) Copy the data about the estimated time people spent reading (in numerical order)

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<b>Mean:</b>	<b>Median:</b>
<b>Mode:</b>	<b>Range:</b>

9) Which would you use to best describe the data- mean, median or mode? Why?

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11) Which grade level has the fewest students enrolled? \_\_\_\_\_

12) a) What is the median number of students buying lunch? \_\_\_\_\_

b) Why is this data represented in a line graph instead of a bar graph?

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13) Copy the stem and leaf plot below:

How many stems are there? \_\_\_\_\_

14) How many leaves are there? \_\_\_\_\_

15) What is the range of the data? \_\_\_\_\_

16) What is the median of the data? \_\_\_\_\_

### Making and Interpreting Bar Graphs

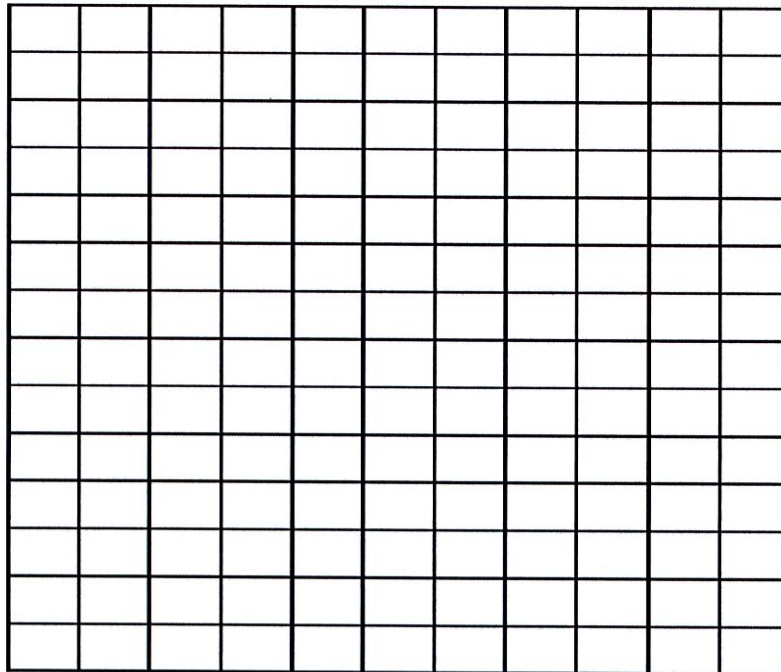
- 1) Mrs. Minera loves celebrating Christmas! She begins planning months in advance and makes a budget for everything she will spend. Make a bar graph to display Mrs. Minera's budget for each item this year.

Item	Budget
Christmas Tree	\$55
Cookies and Treats	\$45
Gifts	\$70
Stockings	\$37
Hot Chocolate	\$26

What scale will you choose? Why?

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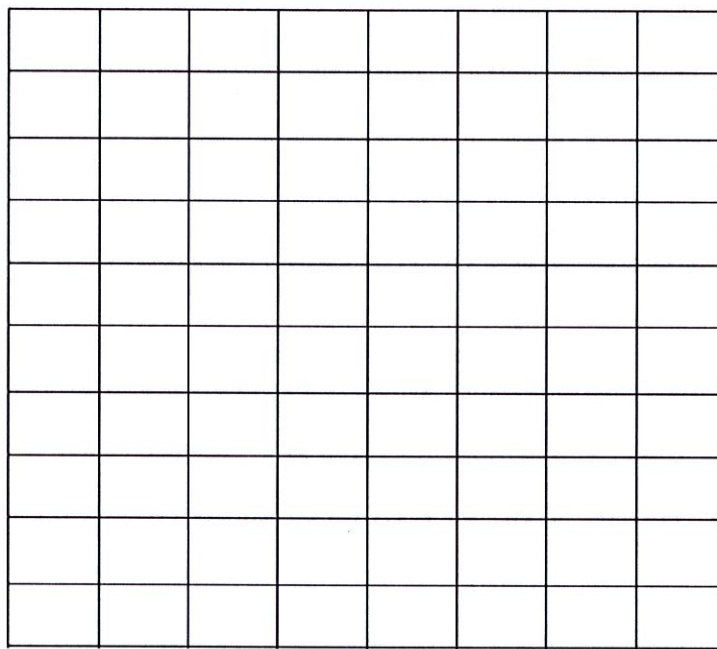


- 2) What conclusions can you draw from the graph? (List 3-5 conclusions)

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### Making and Interpreting Line Graphs

**Directions:** *MovieBusters* keeps data on the number of DVDs rented during each week. Use the data table below to make a line graph of the number of DVDs sold last week. Remember to check off the criteria as you include them in your graph.



Day	Hundreds of DVDs Rented
Monday	2
Tuesday	1
Wednesday	2
Thursday	4
Friday	8
Saturday	9
Sunday	5

- ☐ Title
- ☐ Labels
- ☐ x-axis  
(time increments)
- ☐ y-axis

- 1) Describe the **trend** of this graph. (Is it increasing, decreasing, increasing then decreasing, etc.). Be specific.

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- 2) Which days of the week had the most rentals? Why do you think that is?

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- 3) Which day had the least amount of rentals? What could MovieBusters do to increase rentals on this day?

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